

WHAT IS CLAIMED IS:

1. A multilayer structure polymer (I) prepared by sequentially polymerizing (1) an innermost layer polymer (I-A), (2) an intermediate layer polymer (I-B) with a glass-transition temperature of 25 to 100 °C having a composition different from that of the innermost layer polymer (I-A), and (3) an outermost layer polymer (I-C), which are formed from the following monomer component:

(1) monomer component for the innermost layer polymer (I-A):

(I-A1) an alkyl acrylate in 50 to 99.9 wt%,

(I-A2) an alkyl methacrylate in 0 to 49.9 wt%,

(I-A3) another monomer having a copolymerizable double bond in 0 to 20 wt%,

(I-A4) a multifunctional monomer in 0 to 10 wt%, and

(I-A5) a graft crosslinker in 0.1 to 10 wt%;

(2) monomer component for the intermediate layer polymer (I-B):

(I-B1) an alkyl acrylate in 9.9 to 90 wt%,

(I-B2) an alkyl methacrylate in 9.9 to 90 wt%,

(I-B3) another monomer having a copolymerizable double bond in 0 to 20 wt%,

(I-B4) a multifunctional monomer in 0 to 10 wt%, and

(I-B5) a graft crosslinker 0.1 to 10 wt%;

(3) monomer component for the outermost layer polymer (I-C):

(I-C1) an alkyl methacrylate in 80 to 100 wt%,

(I-C2) an alkyl acrylate in 0 to 20 wt%, and

(I-C3) another monomer having a copolymerizable double bond in 0 to 20 wt%.

2. A resin composition (III) comprising the multilayer structure polymer

(I) as claimed in Claim 1 and a thermoplastic polymer (II) containing an alkyl methacrylate as a main component.

3. A resin composition (IV) comprising the multilayer structure polymer (I) as claimed in Claim 1 or the resin composition (III) as claimed in Claim 2 in 100 parts by weight and a matting agent in 0.1 to 40 parts by weight.

4. An acrylic resin film material (A) consisting of one selected from the group consisting of the multilayer structure polymer (I) as claimed in Claim 1, the resin composition (III) as claimed in Claim 2 and the resin composition (IV) as claimed in Claim 3.

5. An acrylic resin film material (A) exhibiting a difference of 30 % or less between haze values as determined in accordance with the testing method of JIS K7136 (haze measurement method) after and before a tensile test where a test piece with a width of 20 mm is pulled under the conditions of an initial inter-chuck distance of 25 mm, a rate of 50 mm/min and a temperature of 23 °C until an end-point inter-chuck distance becomes 33 mm as well as having a pencil hardness of 2B or higher as determined in accordance with JIS K5400.

6. The acrylic resin film material (A) as claimed in Claim 4 or 5, wherein at least one side has a 60 ° surface glossiness of 100 % or less.

7. The acrylic resin film material (A) as claimed in any one of Claims 4 to 6, wherein a heat distortion temperature as determined in accordance with ASTM D648 is 80 °C or higher.

8. The acrylic resin film material (A) as claimed in any one of Claims 4 to 7, further comprising a decorative layer in at least one side.

9. An acrylic resin laminate film comprising the acrylic resin film material (A) as claimed in any one of Claim 4 to 7 and further comprising another acrylic resin film material (A') or fluororesin film material (A").

10. The acrylic resin laminate film as claimed in Claim 9, further

comprising a decorative layer in at least one side.

11. A photocurable acrylic resin film or sheet comprising the acrylic resin film material (A) as claimed in any one of Claims 4 to 7 or the acrylic resin laminate film as claimed in Claim 9, and a photocurable resin composition (Z) layer which comprises a thermoplastic resin having a radical polymerizable unsaturated group in a side chain (z-1) and photoinitiator (z-2).

12. The photocurable acrylic resin film or sheet as claimed in Claim 11, further comprising a decorative layer in at least one side.

13. A laminate film or sheet comprising one selected from the group consisting of the acrylic resin film material (A) as claimed in any one of Claims 4 to 7, the acrylic resin laminate film as claimed in Claim 9 and the photocurable acrylic resin film or sheet as claimed in Claim 11, as well as a thermoplastic resin layer (C).

14. The laminate film or sheet as claimed in Claim 13, further comprising a decorative layer.

15. A construction laminate film or sheet consisting of the laminate film or sheet as claimed in Claim 13 or 14.

16. A laminate molded item wherein on a base (E) is laminated one selected from the group consisting of the acrylic resin film material (A) as claimed in any one of Claims 4 to 8, the acrylic resin laminate film as claimed in Claim 9 or 10, the photocurable acrylic resin film or sheet as claimed in Claim 11 or 12, the laminate film or sheet as claimed in Claim 13 or 14 and the construction laminate film or sheet as claimed in Claim 15.

17. The laminate molded item as claimed in Claim 16 prepared by vacuum- or press molding one selected from the group consisting of the acrylic resin film material (A) as claimed in any one of Claims 4 to 8, the acrylic resin laminate film as claimed in Claim 9 or 10, the photocurable acrylic resin film or

sheet as claimed in Claim 11 or 12, the laminate film or sheet as claimed in Claim 13 or 14 and the construction laminate film or sheet as claimed in Claim 15 in an injection mold, and then in the injection mold, combining it with a resin to be the base (E) by injection-molding.

18. The laminate molded item as claimed in Claim 16 prepared by vacuum- or press molding one selected from the group consisting of the acrylic resin film material (A) as claimed in any one of Claims 4 to 8, the acrylic resin laminate film as claimed in Claim 9 or 10, the photocurable acrylic resin film or sheet as claimed in Claim 11 or 12, the laminate film or sheet as claimed in Claim 13 or 14 and the construction laminate film or sheet as claimed in Claim 15, and then placing the molding in an injection mold, and injection-molding a resin to be the base (E) in the injection mold.